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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,521	1 11/24/2003		Akira Takeda	S004-5169	5322
7	590	11/26/2004		EXAMINER	
ADAMS & W	VILKS		NGUYEN, HIEP		
50 Broadway					
31st Floor				ART UNIT	PAPER NUMBER
New York, NY	7 10004		2816		

2816
DATE MAILED: 11/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i></i>	_				
	Application No.	Applicant(s)					
	10/721,521	TAKEDA ET AL.					
Office Action Summary	Examiner	Art Unit	_				
	Hiep Nguyen	2816					
The MAILING DATE of this communication of the Period for Reply	ation appears on the cover sheet	with the correspondence address					
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun. - If the period for reply specified above, the maximum statut. - Failure to reply within the set or extended period for reply wil Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may ication. days, a reply within the statutory minimum of the tory period will apply and will expire SIX (6) Months, by statute, cause the application to become	a reply be timely filed airty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed	on 24 November 2003						
)⊠ This action is non-final.						
3) Since this application is in condition for		tters, prosecution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-8 is/are pending in the appl	ication.						
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-8</u> is/are rejected.	DIX Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction	on and/or election requirement.						
Application Papers	•						
9) The specification is objected to by the E	Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to	by the Examiner.					
Applicant may not request that any objection		-					
Replacement drawing sheet(s) including th							
11)☐ The oath or declaration is objected to b							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for a) ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority do 2. ☐ Certified copies of the priority do 3. ☐ Copies of the certified copies of application from the Internationa	cuments have been received. cuments have been received in the priority documents have bee I Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage					
* See the attached detailed Office action f	or a list of the certified copies no	t received.					
And the second of							
Attachment(s)	,, —						
1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO		Summary (PTO-413) (s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date		Informal Patent Application (PTO-152)					

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: the specification does not describe what are the "a standard voltage" and "a reference voltage".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction and /or clarification is required.

Regarding claim 1, the recitation "a standard voltage" and "a reference voltage" are indefinite because it is not clear what they are in the drawing.

Regarding claim 2, the recitation "and the second reference voltage <u>coincides</u> with and offset voltage ..." on lines 21-23 is indefinite because it is not clear what "coincides" is meant by. The same rationale is applied to the recitation "coincides" in claim 3. Explanation is required.

Regarding claim 3, the recitation "when an offset voltage between the first input terminal and the second terminal has the temperature characteristic" on lines 4-5 is indefinite because it is not clear what "has a temperature characteristic" is meant by. As understood by the Examiner, the offset voltage varies with the change of temperature. The recitation 'the first reference voltage sets the temperature characteristic" is indefinite because it is not clear how the "first reference voltage" can set the "temperature characteristic".

Claim 4 is indefinite because the following elements cannot be identified in the drawing: first to sixth capacitors and first to twelfth switch circuits. The Applicant is requested to point out these elements in figure 1 of the present application.

Claims 5-8 are indefinite because of the technical deficiencies of claims 1, 2 and 4.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art, figure 2 in view of Motegi et al. (US Pat. 6,653,999).

Regarding claim 1, the prior art, figure 2 shows a switched capacitor amplifier circuit, comprising: an operational amplifier; a plurality of switch circuits; a plurality capacitors; a two input terminals (141) and (141); figure 2 shows a reference voltage generator circuit generating two reference voltage (Vref1) and (Vref2) supplying voltages to the two inputs terminals. Figure 2 does not show that the noise components of the "standard voltage" and the "reference voltage" are in phase for reducing noises cause by offset voltage adjustment. Figure 3 of Motegi shows a reference voltage generator circuit generating a "reference voltage" at node (103) and a "standard voltage" at node 104. The noise components of these voltages are in phase because they are generated from a same source of reference voltage (VLCDO) and resistive elements. Therefore, it would have been obvious to those skilled in the art at the time the invention was made to replace the reference voltage generator circuit of the prior art with the reference generator circuit taught by Motegi that has fewer active elements for reducing the size of the circuit and for minimizing the production cost.

Regarding claims 2 and 3, the combination of the prior art and figure 3 of Motegi shows a switch capacitor circuit amplifier circuit comprising: first and second input terminals (141, 142), first and second capacitors (101, 102), an op-amp, first and second reference voltage terminals coupled to the left sides of capacitors (101) and (102). The first reference voltage (VLCDO) and the second reference voltage (VLCD1) can be adjusted (col. 4, lines 8-

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12) to cancel out the offset voltage between the first and second input terminals due to the variation of the ambient temperature.

Regarding claim 4, the circuit of the combination of the prior art and Motegi is <u>identical</u> to the circuit of figure 1 of the present application. The combination shows a switched capacitor amplifier circuit comprising first to sixth capacitors and first to twelfth capacitors connected as described in claim 4.

Claims 5-8 are also rejected under 103(a), the recitation "An electronic device" is merely intended use thus, it does not further limit the limitations of the claim. It has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. Therefore, this limitation has not been given patentable weight.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hiep Nguyen whose telephone number is (571) 272-1752. The examiner can normally be reached on Monday to Friday from 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hiep Nguyen

11-19-04

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